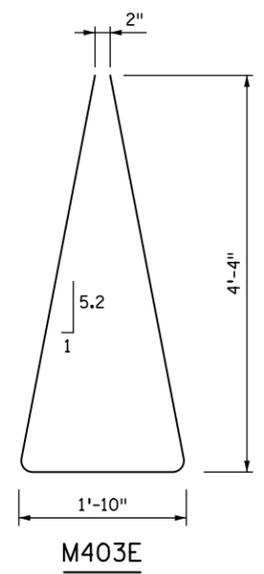


SECTION A-A
* DIMENSION SHOWN IS TO THE TOP OF THE WEARING COURSE AT GUTTERLINE.

JOINT AT ABUTMENT
(INTEGRAL OR SEMI-INTEGRAL ABUTMENT)

CONTROL JOINT

INSIDE ELEVATION OF BARRIER
CONCRETE WEARING COURSE NOT SHOWN



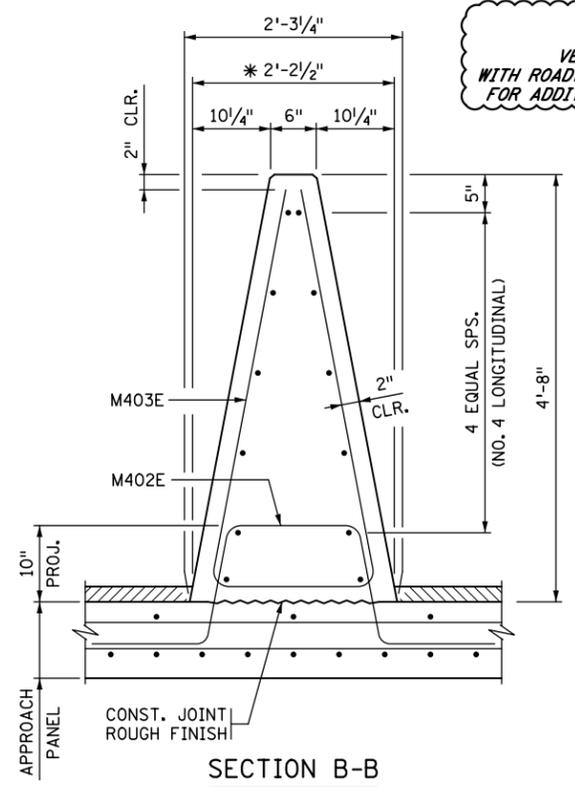
DESIGNER NOTE
(REMOVE PRIOR TO PLOTTING FINAL PLAN);
VERIFY LENGTH OF BARRIER ON APPROACH PANEL
WITH ROADWAY DESIGNER. REFER TO MEMO TO DESIGNERS (2016-01)
FOR ADDITIONAL REQUIREMENTS REGARDING BARRIER PLACEMENT.

**BARRIER MEETS NCHRP 350 TL-4 REQUIREMENTS
ON BRIDGE DECK AND TL-3 ON APPROACH PANEL.**

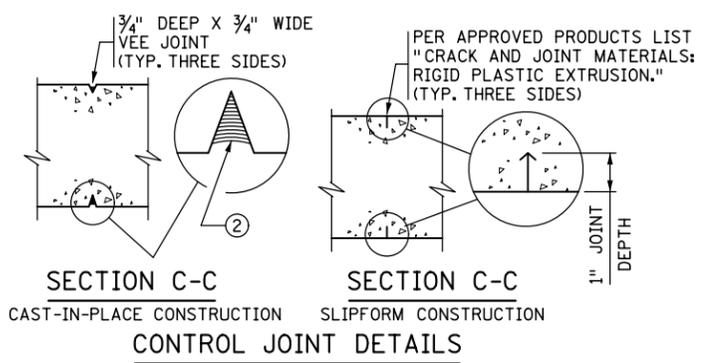
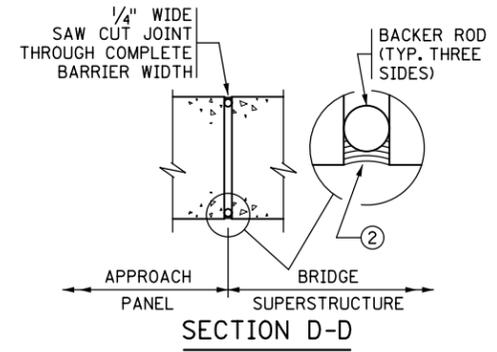
BILL OF REINFORCEMENT FOR BARRIER				
BAR	NO.	LENGTH	SHAPE	LOCATION
M401E		6'-8"		BARRIER DOWEL
M402E		6'-9"		BARRIER DOWEL
M403E		10'-8"		BARRIER VERTICAL
M4_E				BARRIER LONGITUDINAL
M4_E				BARRIER LONGITUDINAL
M4_E				BARRIER LONGITUDINAL
M4_E				BARRIER LONGITUDINAL

GENERAL NOTES

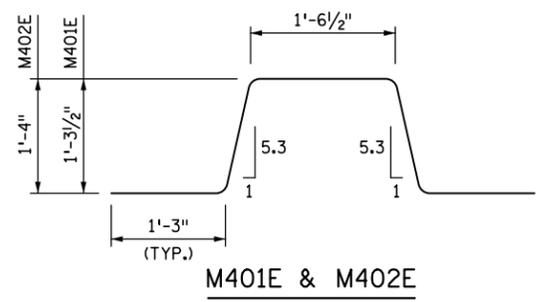
- MEASURE PAYMENT LENGTH BETWEEN THE OUTSIDE ENDS OF THE BARRIER FROM THE E8 JOINT.
- CONCRETE BARRIER = 970 LBS./FT. (0.240 CU. YDS./FT.)
- FINISH ALL EDGES OF BARRIER WITH 1/2" CHAMFER EXCEPT WHERE OTHERWISE NOTED.
- SPACE CONTROL JOINTS AT 10 FT. MAXIMUM. REFER TO SUPERSTRUCTURE SHEET FOR SPECIFIC SPACING INFORMATION.
- BARRIER QUANTITIES ARE LISTED IN SUMMARY OF QUANTITIES FOR SUPERSTRUCTURE.
- ① PLACE BAR ON TOP OF BOTTOM REINFORCEMENT MAT IN DECK.
- ② JOINT SEALANT PER MNDOT APPROVED/QUALIFIED PRODUCTS LIST - CRACK AND JOINT MATERIALS - SILICONE JOINT SEALERS.



SECTION B-B
CONCRETE APPROACH PANEL.
* DIMENSION SHOWN IS TO THE TOP OF THE WEARING COURSE AT GUTTERLINE.



INCREASE M401E VERTICAL LEGS IF DECK SLAB THICKNESS IS GREATER THAN 9".



REVISION: MAY 10, 2017
APPROVED: AUGUST 24, 2016
Kevin Weston
STATE BRIDGE ENGINEER

FOR SLIPFORM CONSTRUCTION: IMMEDIATELY AFTER CONCRETE IS PLACED AND WHILE IT IS STILL WET, CREATE A ONE INCH STRAIGHT GROOVE USING A TROWEL. INSERT RIGID PLASTIC EXTRUSION INTO GROOVE TO A DEPTH 1/8" BELOW THE SURFACE; FINISH OVER GROOVE COMPLETELY HIDING THE EXTRUSION.

CERTIFIED BY _____ DATE _____
LICENSED PROFESSIONAL ENGINEER
NAME: _____ LIC. NO. _____

TITLE: **SOLID MEDIAN BARRIER 54"**
(TYPE S, TL-4)
INTEGRAL OR SEMI-INTEGRAL ABUTMENT
(WITH 2" CONCRETE WEARING COURSE)

DES: _____ DR: _____
CHK: _____ CHK: _____
APPROVED: _____
BRIDGE NO. _____
SHEET NO. OF SHEETS

FIG. 5-397.149(B)